

## ABSTRACT

A method and system for generating a hologram include a computer (104) connected to a printer (108). A mathematical description (102) of an object, including for example the physical dimensions of the object, is provided to the computer (104). The computer (104) computes a holographic interference pattern based on the mathematical description (102) of the object, and then transmits the computed holographic interference pattern data (106) to the printer (108). The printer (108) prints or otherwise fixes the holographic interference pattern to a print medium (107) to produce a hologram (110). A holographic (three-dimensional) image (114) of the object can then be produced by directing a light beam (118) from a light source (112) onto a surface of the hologram (110), so that the light will interfere with the pattern to generate the holographic image (114).